Peter Huang

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Computer Engineering student at McGill University with background in software, algorithms, cloud architecture, word embeddings, AI agent and full-stack development. Seeking a Summer 2026 internship opportunity. I am eager to contribute and motivated to learn.

EDUCATION

McGill University — B.Eng. in Computer Engineering, GPA: **4.0 / 4.0**   *Sept 2024 - April 2027*
Relevant Coursework: Data Structures & Algorithms, Software Systems, Operating Systems, Computer Organizations, Software Engineering, Object-Oriented Programming

Marianopolis College — Diploma of Collegial Studies in Pure & Applied science   *Sept 2022 - May 2024*
Member: Marianopolis SFAM Club, Marianopolis Flag Football

Certification:
AWS Solutions Architect Associate   *Obtained June 2025*
AWS Solutions Architect Professional   *Obtained July 2025*

WORK EXPERIENCE

Transport Canada - eBIDA Team   **Canada, Montreal**
Incoming Fall Data Science/Engineer Intern   *Sept 2025 - Dec 2025*

CloudAct CPA Professional Corporation   **Canada, Montreal**
AI Agent Developer Intern | Web Scraping, LLM, Word Embeddings, NLP   *July 2025 - Aug 2025*
- Developed an automated pipeline to monitor RSS feeds, filter by financial document type and institution code.
- Implemented document chunking and semantic filtering using word embeddings, built an LLM workflow for financial data extracting with LangChain.
- Automated structured output generation in JSON and Excel formats for downstream financial operations.

Coinchain Inc.   **Canada, Vancouver**
Cloud Architect Intern | AWS   *May 2025 - Aug 2025*
- Designed cloud architectures on AWS optimizing based on cost, availability, security and scalability.

Marianopolis College   **Canada, Montreal**
Peer Tutoring | Collegial level teaching   *September 2023 - Current*
- Conducted one-on-one tutoring sessions for 6+ students in Calculus, Mechanics, E&M, and Computer Programming.

PROJECTS

ITrackApply Google Extension — *https://youtu.be/KrnUM2nuuWE (Available on Chrome Store)*
- **Technologies**: JavaScript, Python, SQL, Google Sheets API, AWS Lambda, OAuth 2.0, DynamoDB, REST API, OpenAI
- Developing a Chrome extension that automates job application tracking with Google Sheets API integration.
- Implemented secure OAuth 2.0 authentication and real-time synchronization to DynamoDB.
- Built a scalable Python Flask backend deployed on AWS Lambda and integrated with API Gateway.
- Leveraged LLM-powered Data Extraction for extracting data from job posting website.
- Designed a user-friendly interface using Chrome Extension APIs with a focus on UX and data accuracy.

Grocery Store GUI Application — *https://github.com/peterhxk/GroceryStoreGUI*
- **Technologies:** Java, Umple, SceneBuilder, Git, Cucumber, JUnit, VSCode debugging tools
- Developed a full-stack grocery store management application as a group project using Java with a Model-View-Controller architecture.
- Designed system models with Class Diagrams and State Machines using Umple, auto-generating base code for the application's structure and logic.
- Built responsive UI components using SceneBuilder and conducted tests using VSCode debugging tools.
- Automated builds with Gradle and performed Behaviour-Driven Development testing using JUnit and Cucumber.
- Collaborated using Git for version control and branch management, enabling efficient teamwork and code integration.

ScrapeNYT — *https://github.com/peterhxk/ScrapeNYT*
- Scrapes 2500+ Articles per hour from New York Times Magazine and records in JSONL file for further ML purposes.

Warehouse Management System — *https://github.com/peterhxk/InventorySys*
- Developed a full-stack web application using React, Node.js, and MongoDB for factory warehouse management.

Cybersecurity & Systems Programming — *https://github.com/peterhxk/CybersecSystemProg*
- Developed network servers in C and automated system tasks using Bash scripts.
- Implemented buffer overflow exploits to understand offensive cybersecurity techniques.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Bash, JavaScript, TypeScript, HTML, VHDL, MongoDB, Node.js, React, SQL
Frameworks & Tools: AWS, Git, Unity, LangChain, Quartus, ModelSim, SceneBuilder, VSCode, Umple, OpenAI
Languages: English, French, Chinese (Mandarin)

AWARDS & ACHIEVEMENTS

- 2024 Marianopolis Dean's List
- 2023 RSEQ Flag Football All-Star Award
- 2022 Football Most Polyvalent Player Award
- 2022 Physics Academic Excellence Award
- 2022 DragonBoat Silver Medal